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INDUSTRY SERIES

1982

Census of  
Construction Industries

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GLASS AND GLAZING WORK  
SPECIAL TRADE CONTRACTORS  
(Industry 1793)

During 1982, the establishments with paid employees classified in this industry accounted for \$2.7 billion in total business receipts. Of this amount, \$2.5 billion were receipts for construction work. These establishments paid out \$1.3 billion for materials, components, supplies, and fuels and \$58.9 million for construction work subcontracted to others. This industry had total average employment of 36,517 employees with total payroll of \$709.0 million. Value added for 1982 was \$1.3 billion.

Establishments classified in this industry are primarily engaged in glass and glazing work in connection with, but not limited to, building construction. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.



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**Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States -----	3 864	36 517	26 900	708 983	501 997	46 989	2 461 724	2 402 851
Alabama -----	66	429	310	7 674	5 693	468	26 103	25 770
Alaska -----	10	97	66	2 163	1 407	84	6 310	6 310
Arizona -----	57	445	310	6 689	4 183	584	24 921	24 711
Arkansas -----	36	145	122	2 045	1 733	239	7 107	(D)
California -----	574	4 407	3 243	97 463	68 783	5 441	373 732	365 674
Colorado -----	87	1 172	857	20 949	15 139	1 514	79 970	79 101
Connecticut -----	39	306	235	5 035	3 469	428	16 742	16 589
Delaware -----	*5	(S)	(S)	(S)	(S)	(S)	(S)	(S)
District of Columbia -----	*7	88	75	1 963	1 419	145	5 844	(D)
Florida -----	325	2 218	1 590	34 557	22 703	2 817	136 343	133 911
Georgia -----	75	720	533	12 283	7 882	941	44 722	44 504
Hawaii -----	22	303	213	6 840	4 574	356	26 159	25 465
Idaho -----	*15	*59	*42	850	618	*65	*4 342	(D)
Illinois -----	159	1 389	981	32 628	23 038	1 785	108 920	106 964
Indiana -----	58	481	345	9 059	6 343	590	27 837	27 423
Iowa -----	22	509	359	6 890	4 789	598	21 025	(D)
Kansas -----	43	384	248	7 374	4 757	419	17 822	17 682
Kentucky -----	34	317	209	5 775	3 569	369	14 880	14 730
Louisiana -----	68	693	549	13 897	10 766	976	52 234	51 673
Maine -----	18	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Maryland -----	47	732	525	13 772	9 195	963	48 715	47 464
Massachusetts -----	75	966	733	18 078	13 607	1 259	75 057	72 415
Michigan -----	144	1 146	840	21 544	14 480	1 447	75 472	73 174
Minnesota -----	59	537	370	12 308	8 777	633	43 103	42 590
Mississippi -----	22	168	116	2 489	1 703	195	7 755	7 679
Missouri -----	48	730	523	15 752	10 538	921	42 831	41 997
Montana -----	*15	(S)	(S)	(S)	(S)	(S)	(S)	(S)
Nebraska -----	16	118	72	2 447	1 392	126	9 460	9 402
Nevada -----	29	366	277	7 586	5 857	508	21 846	21 723
New Hampshire -----	22	(S)	(S)	(S)	(S)	(S)	(S)	(S)
New Jersey -----	132	1 200	907	22 985	15 719	1 517	77 098	73 744
New Mexico -----	21	108	74	1 755	1 099	112	5 450	5 395
New York -----	276	2 316	1 786	37 202	27 949	3 067	134 039	128 177
North Carolina -----	79	1 050	680	14 882	9 705	1 305	48 910	48 334
North Dakota -----	8	81	57	1 480	972	104	6 169	(D)
Ohio -----	148	1 106	797	22 214	15 478	1 357	74 234	72 054
Oklahoma -----	44	420	343	8 161	5 854	525	28 009	27 870
Oregon -----	44	310	217	7 327	4 770	399	34 899	34 767
Pennsylvania -----	153	2 292	1 894	53 871	45 383	3 461	148 860	(D)
Rhode Island -----	20	158	109	2 470	1 740	152	8 283	(D)
South Carolina -----	41	382	249	6 003	3 820	476	21 461	20 665
South Dakota -----	14	110	68	2 027	1 166	118	6 503	6 503
Tennessee -----	62	765	472	12 758	7 814	797	42 772	42 108
Texas -----	355	4 698	3 725	99 299	73 284	6 663	356 878	351 497
Utah -----	24	104	82	1 865	1 500	134	4 588	4 554
Vermont -----	9	47	32	676	*362	*59	2 396	(D)
Virginia -----	49	663	458	11 260	6 592	820	36 967	36 216
Washington -----	102	665	443	13 200	8 972	723	44 127	43 915
West Virginia -----	*19	110	83	1 263	909	*141	3 770	3 770
Wisconsin -----	38	548	349	13 025	7 886	593	35 095	34 483
Wyoming -----	19	(S)	(S)	(S)	(S)	(S)	(S)	(S)



1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 320 297	1 274 309	58 873	29 622	28 781	236 093	26 125	1 006 566	570 736	1	1	2	U.S.
14 589	(D)	333	272	322	5 867	346	11 508	6 991	16	14	39	Ala.
4 478	3 479	—	211	98	809	50	3 131	2 228	13	6	21	Alaska
11 921	14 266	210	392	249	2 591	477	16 069	9 647	11	12	14	Ariz.
3 415	3 899	(D)	58	(D)	358	259	7 711	4 268	29	—	—	Ark.
202 025	183 528	8 058	6 109	3 640	32 920	3 052	153 463	83 013	4	3	5	Calif.
41 928	43 046	869	963	1 091	6 181	415	14 575	9 842	7	5	6	Colo.
8 390	9 669	153	313	375	2 377	261	9 447	5 697	16	13	12	Conn.
(S)	(S)	(S)	(S)	(S)	(S)	47	1 394	759	—	—	—	Del.
3 799	2 026	(D)	30	10	439	151	7 336	4 369	25	24	(W)	D.C.
66 349	73 992	2 432	1 200	1 585	16 969	1 302	46 253	23 453	7	6	8	Fla.
24 748	23 658	218	555	1 096	5 610	603	19 934	10 761	11	10	16	Ga.
13 649	13 142	694	366	168	1 647	125	6 131	3 058	8	5	(W)	Hawaii
*1 903	2 623	(D)	23	*305	484	58	2 948	1 403	40	—	55	Idaho
58 014	55 209	1 956	1 319	1 179	10 114	1 434	57 215	36 372	6	4	14	Ill.
15 243	13 384	414	349	256	3 471	518	19 211	10 529	8	4	3	Ind.
12 224	11 629	(D)	45	164	2 992	273	13 323	7 463	7	—	33	Iowa
11 461	9 191	*140	126	146	2 637	223	6 736	4 739	25	18	21	Kans.
8 777	9 488	150	117	228	1 538	287	12 970	5 571	11	11	15	Ky.
27 270	29 767	*561	490	436	3 153	493	16 548	10 438	9	8	9	La.
(S)	(S)	(S)	(S)	(S)	(S)	101	3 123	(D)	—	—	—	Maine
26 626	24 215	1 251	455	477	4 106	393	13 706	7 504	7	5	2	Md.
39 322	35 765	2 642	924	2 310	7 879	612	26 104	14 070	7	5	3	Mass.
40 082	39 015	2 298	991	688	7 348	989	39 821	23 620	8	5	20	Mich.
22 237	24 065	512	527	376	3 393	243	13 370	6 197	9	5	15	Minn.
4 671	6 331	*76	183	5	759	169	5 568	3 660	17	13	(W)	Miss.
25 143	20 974	833	433	408	3 004	340	12 343	8 647	11	4	1	Mo.
(S)	(S)	(S)	(S)	(S)	(S)	100	3 792	2 192	—	—	—	Mont.
4 853	5 646	58	81	129	1 103	142	6 428	3 955	19	14	8	Nebr.
12 798	11 152	*123	573	155	2 544	269	13 872	6 552	11	8	(W)	Nev.
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	—	—	—	N.H.
39 686	36 172	3 354	485	1 729	8 462	927	35 892	19 230	8	6	13	N.J.
2 768	3 398	55	87	*27	555	141	4 812	2 642	24	19	41	N. Mex.
69 056	66 154	5 862	1 623	1 796	15 575	1 894	70 129	38 641	7	6	11	N.Y.
27 370	30 417	576	772	817	5 611	673	21 375	13 776	9	10	17	N.C.
3 233	3 040	(D)	149	120	592	(D)	(D)	(D)	13	—	31	N. Dak.
40 187	35 868	2 180	941	444	5 851	1 066	44 465	23 686	7	5	8	Ohio
14 798	14 365	139	469	207	2 859	256	9 899	4 962	17	12	9	Okla.
17 808	20 014	*132	427	131	1 910	260	13 475	7 542	14	6	23	Oreg.
102 800	36 944	(D)	1 074	1 803	13 485	1 078	39 453	21 816	3	—	14	Pa.
4 234	4 666	(D)	(D)	*19	622	144	4 060	2 321	17	—	47	R.I.
10 617	14 619	*796	103	252	1 583	298	8 470	5 737	14	11	26	S.C.
3 258	4 481	—	80	*56	866	70	(D)	(D)	19	14	52	S. Dak.
21 807	30 856	664	414	309	3 090	780	22 809	16 685	9	9	11	Tenn.
176 923	204 893	5 381	3 635	3 554	25 933	3 148	97 598	54 110	3	2	6	Tex.
2 782	2 751	34	118	162	526	101	3 140	1 693	24	22	30	Utah
1 259	2 404	(D)	103	24	416	15	443	233	36	—	(W)	Vt.
16 760	22 930	751	526	386	4 539	496	17 474	11 426	6	5	4	Va.
25 220	22 313	212	501	247	4 793	453	20 843	10 616	9	8	8	Wash.
2 183	1 743	—	45	—	490	77	2 494	1 712	37	38	—	W. Va.
20 281	19 203	(S)	392	429	4 642	456	19 929	12 077	9	5	3	Wis.
(S)	(S)	(S)	(S)	(S)	(S)	*29	*1 577	*745	—	—	—	Wyo.

**Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
<b>Total construction receipts -----</b>	<b>2 461 724</b>	<b>1 006 566</b>	<b>1</b>	<b>1</b>
Building construction -----	1 988 585	919 964	1	1
Single-family houses -----	219 362	150 355	4	3
Apartment buildings with two or more apartments -----	87 569	64 396	5	6
Other residential buildings -----	104 688	45 199	3	2
Industrial buildings and warehouses -----	224 180	137 424	2	2
Office and bank buildings -----	835 261	179 934	1	1
Stores, restaurants, public garages, and automobile service stations -----	260 795	164 299	3	2
Religious buildings -----	43 059	31 393	7	5
Educational buildings -----	88 700	60 107	3	2
Hospitals and institutional buildings -----	93 909	59 674	2	1
Amusement, social, and recreational buildings -----	16 326	15 578	3	2
Other nonresidential buildings -----	14 736	11 607	4	7
Nonbuilding construction -----	33 495	3 593	7	15
Construction work, n.s.k. -----	439 644	83 055	3	4

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The following abbreviations and symbols are used in the tables in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.



